

Dover – Rochester 29440

Public Officials /Public Informational Meeting
February 17, 2021



Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Zoom Meeting Participant Protocols

- The meeting moderator will guide the public participation portion of the meeting and coordinate the meeting logistics.
- There will be an opportunity to ask questions and/or provide comments at the end of the formal presentation.
- Questions/Comments can either be entered into the “Q&A box” or can be addressed through the “raise your hand” option if you prefer to speak, or do not have web access.
- When participating via phone, pressing *9 will activate the “raise your hand” feature.
- When participating via phone, pressing *6 will toggle between the “mute” and “unmute” feature.

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Introductions

Nancy Spaulding, PE

- NHDOT Bureau of Turnpikes
- Project Manager

Jon Evans

- NHDOT Bureau of Environment
- Air & Noise Program Manager

Ray Hanf, PE

- HNTB Corporation
- Project Manager

David Smith, PE

- HNTB Corporation
- Meeting Moderator

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Meeting Agenda

- Introductions
- Project Locations, Scope, & Purpose
- All Electronic Tolling (AET) Overview
- Why AET?
- Design Overview
- Environmental Topics
- Water Quality Aspects
- Construction Cost & Schedule
- Question / Answer Period

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Project Location



Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Project Scope

- Installation of All Electronic Tolling (AET) infrastructure
- Construction of median concrete barrier
- Construction of water quality features and drainage systems
- Removal of existing toll facilities
- Rehabilitation of pavement

Project Purpose

- Automation of toll collection operations
- Replacement of deteriorated toll infrastructure

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

AET Overview

- Electronic toll transactions only
- No cash collections
- Toll transactions completed at highway speeds (no stopping)
- Toll collection for E-ZPass patrons as well as non-E-ZPass customers
- Automatic collection of user fee/toll using E-ZPass transponder or license plate information



Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Why AET?

- Existing toll facilities built in mid-1950's
 - Limited to no capital improvement since original construction
 - Existing facilities are in deteriorating state
- AET Construction Cost Savings vs. Open Road Tolling
 - \$26 million savings in capital improvements



- Improved Toll Processing Rates
 - Cash Lane 380 vehicles per hour per lane (vphpl)
 - E-ZPass/Cash Lane 1100 vphpl
 - AET lane 1800 vphpl

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Why AET?

- Improved traveler and toll personnel safety
 - Numerous accidents at the toll plazas over recent years
- Improved mobility along Turnpike
 - All delays associated with the barrier facility are eliminated
 - Continuous travel speeds during toll transaction



- Reduced energy use and vehicle emissions
 - No braking, stopping, accelerating

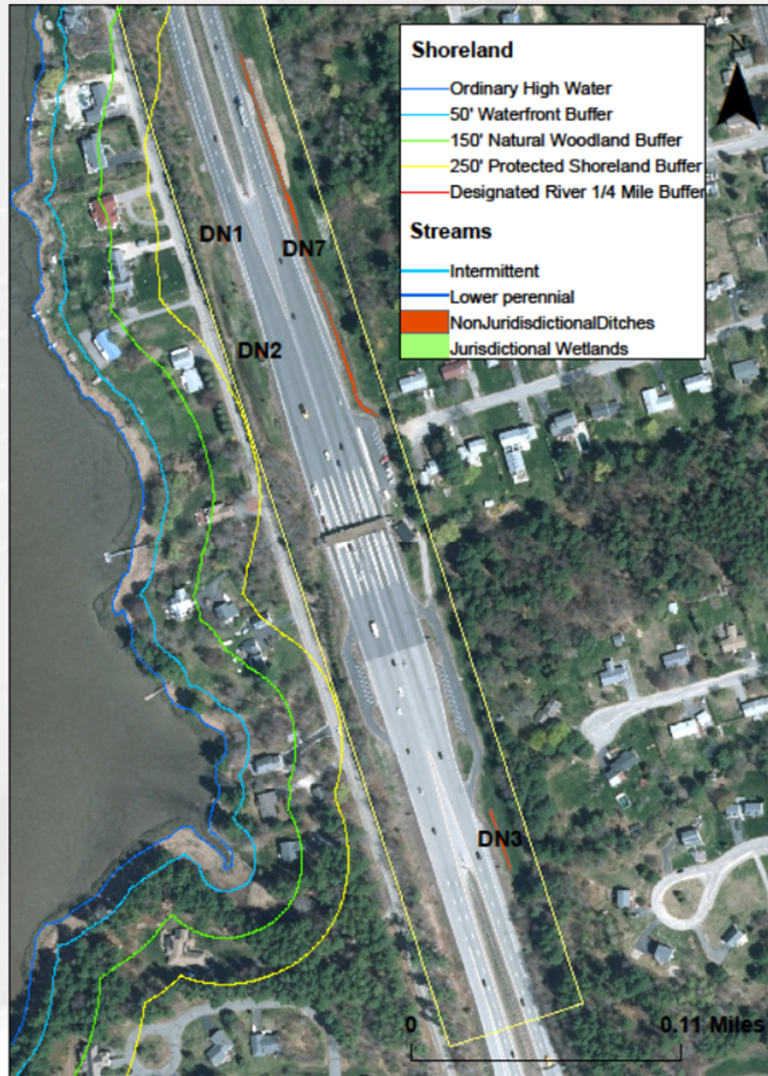
Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Design Overview

- Removal of Existing Toll Plaza Facilities
- Reconstruction of Approach Roadways
- Installation of Overhead AET Gantry
- Installation of Median Concrete Barrier
- New Roadway Drainage
- Improved Water Quality Treatment
- New Roadway Signage

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Environmental Topics



- Wetlands, Streams and Vernal Pools
 - No impacts
- Shoreland Impacts- Bellamy River (tidal)
 - Earthwork and paving in the 150'-250' Protected Shoreland
 - Approximately 35,000 sf of Impact
 - Shoreland "Permit-by-Notification" Anticipated
- Coastal Zone
 - Project is within limits

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Water Quality Aspects

- Impervious Areas
 - Increased by 17,100 sf
 - Attributed to the extension of the three lanes on northern limits of project
- Water Quality Features
 - 1 Gravel Wetland
 - 1 Wet Pond
 - 6 Vegetated Swales
- 90% of all impervious surfaces will receive treatment with proposed features

Anticipated Cost & Schedule

- Current Construction Cost
 - \$18.75 million total for both sites
 - \$8.0 million Dover
 - \$10.75 million Rochester
- Advertise for Construction Bids
 - May 2021
- Construction Seasons
 - Late Summer 2021 thru Late Spring 2023

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)

Contact Information

Nancy Spaulding, PE

- (603) 485-3806

-Nancy.L.Spaulding@dot.nh.gov

Jonathan Evans

- (603) 271-3226

-Jonathan.A.Evans@dot.nh.gov

Ray Hanf, PE

- (207) 228-0903

- rhanf@hntb.com



For additional information, reference the project website

www.NHAET.com

Dover – Rochester 29440
Toll Plaza Conversions to All Electronic Tolling (AET)